

# **EXHIBIT G**

## M21123

### DEVICE OVERVIEW

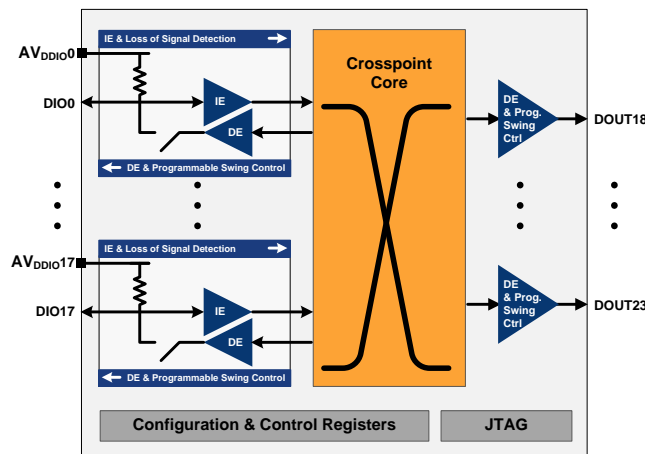
### 3.2Gbps 24 Port Reconfigurable Non-Blocking Crosspoint Switch

The M21123 is a very low power, reconfigurable, 24 port, non-blocking digital crosspoint switch. The device is optimized for power and performance for data frequencies of up to 3.2Gbps, including Serial Digital Interface (SDI) video data rates.

The M21123 is designed to provide the designer with the utmost choice and flexibility. With 18 reconfigurable input/output ports and 6 dedicated output ports, it may be used to create any square and non-square matrix size, from 18x6, to 12x12, to 1x23 and every size in between.

The M21123 includes signal conditioning to compensate for losses accumulated across long board traces, making it ideal for high speed backplane switching applications. Each input/output port features individually programmable trace equalization when configured as an input, and individually programmable de-emphasis and output swing, when configured as an output. The dedicated output ports have individually programmable de-emphasis and swing control.

For lowest power consumption and ease of heat dissipation management, the device may be powered from a single 1.2V supply. For ease of design and when DC coupling to a voltage other than 1.2V is desired, the high speed input and output ports, as well as the digital interface, may be powered from a 1.2V, 1.8V, 2.5V or 3.3V supply. Furthermore, the input/output ports include on-chip 50Ω termination and are electrically isolated from one another, allowing each to be powered from and terminated to a different voltage rail. This provides additional flexibility as each port on the device may be DC coupled to up-stream and down-stream devices with different voltage rails. The M21123 is offered in a green and RoHS compliant 88-pin QFN package.



M21123 Block Diagram



### > The M21123 is Ideal For

- Signal switching
- Fanout buffers
- Backplane equalizing and re-driving
- 3G/HD/SD-SDI switchers and routers

The diagram shows the pinout for the M2123 device, a 44-pin component. The pins are numbered 1 through 44. The labels for each pin are as follows:

- Pins 1-22: DVDDCORE
- Pins 23-44: AVDDIO
- Pins 1-22: DIO1N, DIO1P, DIO2N, DIO2P, DIO3N, DIO3P, DIO4N, DIO4P, DIO5N, DIO5P, DIO6N, DIO6P, DIO7N, DIO7P, DIO8N, DIO8P, DIO9N, DIO9P, DIO10N, DIO10P, DIO11N, DIO11P, DIO12N, DIO12P, DIO13N, DIO13P, DIO14N, DIO14P, DIO15N, DIO15P, DIO16N, DIO16P, DIO17N, DIO17P, DIO18N, DIO18P, DIO19N, DIO19P, DIO20N, DIO20P, DIO21N, DIO21P, DIO22N, DIO22P, DIO23N, DIO23P, DIO24N, DIO24P, DIO25N, DIO25P, DIO26N, DIO26P, DIO27N, DIO27P, DIO28N, DIO28P, DIO29N, DIO29P, DIO30N, DIO30P, DIO31N, DIO31P, DIO32N, DIO32P, DIO33N, DIO33P, DIO34N, DIO34P, DIO35N, DIO35P, DIO36N, DIO36P, DIO37N, DIO37P, DIO38N, DIO38P, DIO39N, DIO39P, DIO40N, DIO40P, DIO41N, DIO41P, DIO42N, DIO42P, DIO43N, DIO43P, DIO44N, DIO44P
- Pins 1-22: MF1, MF2, MF3, MF4, MF5, MF6, MF7, MF8, MF9, MF10, MF11, MF12, MF13, MF14, MF15, MF16, MF17, MF18, MF19, MF20, MF21, MF22, MF23, MF24, MF25, MF26, MF27, MF28, MF29, MF30, MF31, MF32, MF33, MF34, MF35, MF36, MF37, MF38, MF39, MF40, MF41, MF42, MF43, MF44

## 12mmx12mm 88 pin QFN Package

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